

WHAT IS CLAIMED IS:

1. A method for the operation of an elevator installation, comprising the steps of:
 - 5 a) determining at least one operating parameter for achieving a desired performance of an elevator installation by simulation of the operation of the elevator installation and/or by calculation;
 - b) operating the elevator installation with the operating parameter;
 - c) measuring at least one actual performance produced by the elevator
10 installation during said step b); and
 - d) comparing the actual performance with the desired performance of the elevator installation.
2. The method according to claim 1 wherein said step a) is performed by
15 determining the at least one operating parameter as one of: a number of stops served by elevators of the elevator installation; a distance between stops; a number of persons to be served at a stop; a number of elevators in the elevator installation under consideration; stops served by an elevator; a kind of elevator drive; a type of elevator car; a type of car doors; a type of elevator control and passenger interfaces; and a passenger traffic.
- 20 3. The method according to claim 2 wherein said kind of elevator drive includes data as to maximum speed and a graphical travel plot of acceleration and jolt or travel times between stops or specific distances.
- 25 4. The method according to claim 2 wherein said type of elevator car includes data as to a number of decks, size, maximum load weight, and maximum number of persons.
5. The method according to claim 2 wherein said type of car doors includes data
30 as to width, opening time, time for keeping open and closing time.

6. The method according to claim 1 including ascertaining for the desired performance and the actual performance at least one of a destination time of a user, a waiting time of the user, an acceleration of the car, a speed of the car, a number of served passengers, and a number of stops per passenger.

5

7. The method according to claim 1 wherein said step a) is performed on a computer installation with a computer program loaded in a memory of the computer installation, by a processor of the computer installation which executes the computer program, wherein the desired performance is linked with the at least one operating
10 parameter by way of a simulation rule.

8. The method according to claim 7 including performing said step a) while changing the at least one operating parameter until the changed operating parameter fulfils the requirement of the desired performance.

15

9. The method according to claim 1 including associating the at least one operating parameter and the desired performance in a protocol and providing the protocol in the form of an electronic file and/or a written document.

20 10. The method according to claim 9 including determining a guaranteed value for the desired performance of the elevator installation and diminishing the guaranteed value relative to the desired performance by a predetermined factor.

11. The method according to claim 1 including performing said step d) with a
25 protocol analyzer.

12. A method of forming a protocol for the operation of an elevator installation, comprising the steps of:

- 30 a) defining a protocol having at least one operating parameter for achieving a desired performance of an elevator installation;
- b) determining the at least one operating parameter by at least one of simulation of the operation of the elevator installation and calculation;

c) including in the protocol a desired performance corresponding with the at least one operating parameter whereby the elevator installation is operable with the at least one operating parameter.

5 13. The method according to claim 12 including providing the protocol with a guaranteed value for the desired performance of the elevator installation and comparing a measured actual performance of the elevator installation operated with the at least one operating parameter with the guaranteed value.

10 14. The method according to claim 12 including providing the protocol with a guaranteed value for the desired performance of the elevator installation, the guaranteed value being diminished relative to the desired performance by a predetermined factor.

15 15. The method according to claim 12 including providing the protocol with a falsification protection in order to prevent at least one of the at least one operating parameter and the desired performance from being changed unnoticed.

20 16. The method according to claim 16 wherein the falsification protection permits the protocol to be unambiguously checked with respect to the genuineness thereof by use of a publicly available authentication procedure.

25 17. The method according to claim 12 including providing the protocol with expiration data which ensures that claims derived from the protocol are valid only for a restricted time period.

 18. The method according to claim 12 including providing the protocol with a comparison of an actual performance of the elevator installation, which is operated with the at least one operating parameter, with the desired performance.

30 19. The method according to claim 12 including preventing disclosure of at least a part of the protocol to an unauthorized person.